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Quality Engineering Test Report

SERIES: DKE15A 15W DC-DC DUAL OUTPUT CONVERTER

SAMPLE:	**A:**	**DKE15A-05**	**V1: +5V / 150~1500mA**	**V2: -5V / 150~1500mA**
	B:	**DKE15A-12**	**V1:+12V / 62.5~625mA**	**V2:-12V / 62.5~625mA**
	C:	**DKE15A-15**	**V1:+15V / 50~500mA**	**V2:-15V / 50~500mA**

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P : TESTING SPEC : 9~18VDC O/P : FULL LOAD	B:8.1~18VDC	P
2	LINE REGULATION	I/P : 9~18VDC SPEC : ±0.3% O/P : FULL LOAD	A: V1: -0% ~ +0% V2: -0% ~ +0% B: V1: 0.1% ~ 0.1% V2: -0.1% ~ 0% C: V1: -0% ~ +0% V2: -0% ~ +0%	P
3	LOAD REGULATION	I/P : 12VDC SPEC : ±0.5% O/P : MIN. TO FULL LOAD	A: V1: -0.1% ~ +0.1% V2: -0% ~ +0.1% B: V1: -0.1% ~ +0% V2: -0% ~ +0.1% C: V1: -0% ~ +0% V2: -0.1% ~ +0%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P : 9~18VDC SPEC : NONE O/P : MIN. TO FULL LOAD	A: V1: -2.4% ~ +2.7% V2: -2.6% ~ +2.6% B: V1: -1.8% ~ +1.6% V2: -1.8% ~ +1.7% C: V1: -1.5% ~ +1.3% V2: -1.4% ~ +1.4%	P
5	RIPPLE & NOISE	I/P : 12VDC SPEC : A:50mV B:60mV O/P : FULL LOAD C:60mV	A: V1: 30mV V2: 40mV B: V1: 20mV V2: 20mV C: V1: 15mV V2: 13mV	P
6	DC INPUT CURRENT	I/P : 12VDC SPEC : 1.7A O/P : FULL LOAD	B:1.54A	P
7	O/P VOLTAGE ACCURACY	I/P : 12VDC SPEC : ±2% O/P : MIN. LOAD	A: V1: -0.4% V2: -0.3% B: V1: +0.4% V2: +0.3% C: V1: -0.6% V2: -0.4%	P
8	EFFICIENCY	I/P : 12VDC SPEC : A:81% TYPICAL B:82% TYPICAL O/P : FULL LOAD C:82% TYPICAL	A: 79.8% B: 81.1% C: 81.3%	P
9	OVER LOAD PROTECTION	I/P : 12VDC SPEC : 160~250% O/P : TESTING AUTO RECOVERY	A: 180% B: 175% C: 184%	P
10	INSULATION RESISTANCE	SPEC : I/P - O/P : 500VDC/100M Ohms MIN.	B: I/P - O/P > 100M Ohms	P

NEXT

<table>
<tr><th>NO</th><th>TEST ITEM</th><th>TEST CONDITION / SPECIFICATION</th><th>RESULT</th><th>VERDICT</th></tr>
<tr><td>11</td><td>DIELECTRIC / WITHSTAND VOLTAGE</td><td>SPEC : I/P - O/P : 1000VDC/ 1 min
(10mA CUT-OFF)</td><td>B: I/P - O/P : < 0.02mA</td><td>P</td></tr>
<tr><td>12</td><td>BURN-IN TEST</td><td>I/P:12VDC O/P:FULL LOAD
TA:22 °C BURN-IN DURATION : 4 hrs</td><td>A: NO BREAK
B: NO BREAK
C: NO BREAK</td><td>P</td></tr>
<tr><td>13</td><td>TEMPERATURE RISE TEST Trise OF PARTS</td><td colspan="2">I/P : 12VDC AFTER 4 hrs BURN-IN
O/P : FULL LOAD TA : 22.0 °C
<table>
<tr><th>POSITION</th><th>SAMPLE</th><th>TEMP</th><th>Trise</th></tr>
<tr><td>CASE</td><td>DKE15A-05</td><td>44.0°C</td><td>22.0°C</td></tr>
<tr><td>CASE</td><td>DKE15A-12</td><td>45.0°C</td><td>23.0°C</td></tr>
<tr><td>CASE</td><td>DKE15A-15</td><td>42.6°C</td><td>20.6°C</td></tr>
</table></td><td>P</td></tr>
<tr><td>14</td><td>CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)</td><td colspan="2">1. PACKING : 軌道型塑膠包裝
2. MARKING : MODEL LABELx1
3. MECHANICAL : SIX-SIDE SHIELDED CASE, PIN :1.0 Φx8.3mm
4. DIMENSION : 2" * 2" * 0.43"</td><td></td></tr>
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DATE	SAMPLE	TEST RESULT	TEST	APPROVAL
2002.9.17	DKE15A-05 DKE15A-12 DKE15A-15	PASS	T.K.CHENG	MAX LIN

PREVIOUS